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Peter J. Rainville

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the Application of: Samson et al.

Attorney Docket No.: NU-216

Serial No.: Not yet assigned

Customer Number: 000038731

Filed: Concurrently Herewith

Title: OPTICAL FIBER FOR HANDLING HIGHER POWERS

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants and their attorney(s) are aware of the following patents, publications or other information, which are cited on the attached PTO forms SB/08A and SB/08B, and in accordance with 37 CFR §1.97 hereby submit this form and copies of the foregoing information for the Examiner's consideration. It is respectfully requested that the Examiner consider these documents and return an initialed copy of the forms PTO/SB/08A and 08B to the undersigned.

This Information Disclosure Statement is not to be interpreted as a representation that the cited information is material, that an exhaustive search has been conducted, or that no other

information that the Examiner may consider to be relevant exists. Nor shall the citation of any information herein be construed as a *per se* representation that the cited information is prior art to the present application. Moreover, the Applicants understand that the Examiner will make an independent evaluation of the cited information.

Copies of U.S. Patents are not submitted, in accordance with the Official Gazette Notice of 5 August 2003 wherein the USPTO waives the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003.

A copy of Application No. 10/619,376, filed July 11, 2003 and entitled "Improved Optical Fiber", is included herewith. Application No. 10/619,376 and the present application, at the time the invention(s) of the present application was made, were owned by the same person, or subject to an obligation of assignment to the same person.

No fees are understood to be due in connection with the filing of this Information Disclosure Statement since it is being deposited within three months of the filing date of the above application and no office action on the merits has yet been issued. However, if it is determined that a fee is due in connection with the filing of this Information Disclosure Statement, please charge such fees to our Deposit Order Account No. 50-2343.

Respectfully submitted,



Peter J. Rainville, Esq.  
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7 Airport Park Road  
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860-408-5022

Date: April 8, 2004

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Sheet 1

of 2

Application Number	
Filing Date	04/08/04
First Named Inventor	Bryce N. Samson
Art Unit	
Examiner Name	
Attorney Docket Number	NU-216

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,225,925	07-06-1993	Grubb et al.	
		US- 5,881,197	03-09-1999	Dong et al.	
		US- 6,097,512	08-01-2000	Ainslie et al.	
		US- 6,288,835	09-11-2001	Nilsson et al.	
		US- 6,445,494	09-03-2002	Nilsson et al.	
		US- 6,538,807 B2	03-25-2003	Kakui et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 0 689 068 A1	12-27-95	Sumitomo		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet <b>2</b> of <b>2</b>	<b>Application Number</b>	
	<b>Filing Date</b>	04/08/04
	<b>First Named Inventor</b>	Bryce N. Samson
	<b>Art Unit</b>	
	<b>Examiner Name</b>	
	<b>Attorney Docket Number</b>	NU-216

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		GHATAK et al.; "Design of Waveguide Refractive Index Profile to Obtain Flat Modal Field"; SPIE Vol. 3666, pp. 40-44 (1998).	
		DAWSON et al.; "Large flattened mode optical fiber for hight output energy pulsed fiber lasers"; CLEO 2003, June 3, 3.30-3.45, CWD5.	
		OPTOELECTRONICS RESEARCH CENTRE; "High power fiber lasers:pulsed fiber devices"; www.orc.soton.ac.uk/hpfl/pulsed.php, printed 4/7/2004	
		VIENNE et al.; "Fabrication and Characterization of Yb3+:Er3+ Phosphosilicate Fibers for Lasers"; Journal of Lightwave Technology, Vol. 16, No. 11, pp. 1990-2001 (Nov. 1998).	
		NILSSON et al.; "Yb3+ -ring-doped fober for high-energy pulse amplification"; Optics Letters, Vol. 22, No. 14, pp. 1092-1095 (July 15, 1997).	
		NILSSON et al.; "Ring-doped cladding-pumped single-mode three-level fiber laser"; Optics Letters, Vol. 23, No. 5, pp. 355-357 (March 1, 1998).	
		AIVAREZ-CHAVEZ et al.; "High-energy, high-power ytterbium-doped Q-switched fiber laser"; Optics Letters, Vol. 25, No. 1, pp. 37-39 (January 1, 2000).	
		Application No. 10/619,376, entitled "Improved Optical Fiber", filed July 11, 2003.	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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